ANALY	ST:		VPDES NO.			
Instrument: Parameter: Total Residual Chlorine (TRC) Method: DPD Colorimetric (LaMotte) 1/08						
METHO	D OF A	NALYSIS:				
	LaMo	tte Manufacturer's Instructions (Method 7916) plus an edition	of Standard Me	thods		
	18 th Edition of <i>Standard Methods</i> 4500-CI G					
	21 st E	Edition of Standard Methods 4500-Cl G (00)				
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1)	<u>analy</u> numl	Is a certificate of operator competence or initial demonstration of capability available for <u>each</u> <u>analyst/operator</u> performing this analysis? NOTE: Analyze 4 samples of known TRC. Must use a lot number or source that is different from that used to prepare calibration standards. May not use Spec Checks TM . [SM 1020 B.1]				
2)		Are only DPD Instrument Grade tablets used? (Rapid Dissolve Grade tablets and liquid DPD cannot be used with meters) [Mfr.]				
3)		Are the LaMotte DPD # 1 & # 3 (# 4 may be used in place of # 1 & # 3) tablets stored in a cool, dry place and within manufacturer's expiration date? [7.3.1 and 7.3.2]				
4)		Has an initial calibration curve been established using a blank and five standards ranging from 0.1 to 4.0 mg/L chlorine with a calibration coefficient ≥ 0.995? [10.1]				
5)	If ins with	instrument is calibrated on-site, is a standard from another source used to verify the curve each day of use vith recovery of 90 – 110%? [10.1; 18 th ed 1020 B.5; 21 st ed 4020 B.2.b]				
6)	using	If using the factory installed calibration (1100 & 1200 colorimeters), is the curve verified each day of use using a high and a low standard with recovery of 90 – 110%? NOTE : May use commercially available chlorine standards for daily calibration verifications. [9.3.4; 18 th ed 1020 B.5; 21 st ed 4020 B.2.b]				
7)	If the	he factory installed calibration curve is adjusted by the analyst, is the adjusted curve verified using a blank d three standards? [18 th ed 1020 B.5; 21 st ed 4020 B.2.b]				
8)	Does	es the cell used have a light path of at least 1 cm? [11.1]				
9)	Is the	the spectrophotometer set at 515 nm, or the filter photometer set from 490-520 nm? [11.6]				
10)	Is the	Is the wastewater sample being analyzed used to zero the meter? [11.1]				
11)	Is the	Is the light shield closed when the meter is zeroed and when the sample is analyzed? [Mfr.]				
12)	Is the	Is the 10 mL aliquot of sample measured in a graduated cylinder? [11.3]				
13)		Are both DPD tablets #1 and #3 (or #4) crushed after a small amount of sample from the graduated cylinder is added to the cell? [11.3]				
14)	After	After crushing the tablets, is cell filled with remainder of 10 mL aliquot of sample and mixed? [11.5]				
15)	Are r	Are results measured within 10 to 30 seconds after DPD tablets dissolve? [11.6]				
16)	If rea	f read-out is greater than 4.0 mg/L, is sample diluted correctly and then reanalyzed? [11.6]				
17)	Are s	Are samples analyzed within 15 minutes of collection? [40 CFR Part 136]				
18)	Is a c 20 th c	Is a duplicate sample analyzed after every 20 samples if citing 18 th or 19 th Edition [SM 1020 B.6] or daily for 20 th or 21 st Edition [SM 4020 B.3.c]?				
19)		plicate samples are analyzed is the relative percent difference (R ed. DEQ]	(PD) ≤ 20? [18 th	ed. Table 1020 I;		